

**AMENDMENTS TO THE CLAIMS**

1-11. (Canceled)

12. (Currently Amended) A network system, comprising:

a plurality of network devices connected to a network, each of the plurality of network devices transmitting and receiving data through the network; and

a managing device configured to ~~control the network and to manage~~ the network based on network state information ~~used for controlling the network~~,

wherein when a new device is connected to the network, the managing device determines whether the new device is to be a new network device or a device managing the network ~~or not the new device is to be a new managing device~~, and if the new device is determined to be the ~~new managing device~~ managing the network, the managing device transmits the ~~managed~~ network state information to the new device.

13. (Currently Amended) The network system according to claim 12, wherein when the new device receives the network state information, the new device controls the network based on the received network state information.

14. (Previously Presented) The network system according to claim 12, wherein when the new device is connected to the network, the new device transmits an address of the new device to the managing device.

15. (Currently Amended) A method for configuring a network comprising:

entering, by a new device, into the network, wherein a plurality of network devices is connected to the network and each of the plurality of network devices transmits and receives data through the network;

determining, by a managing device, whether or not ~~a new~~ the new device is to be a new ~~managing-network device or a device managing the network~~, wherein the managing device ~~controls the network and manages~~ the network based on network state information ~~used for controlling the network~~; and

transmitting, by the managing device, the ~~managed-network~~ state information to the entered new device when the new device is determined to be the ~~managing device~~ managing the network.

16. (Currently Amended) The method according to claim 15, further comprising:

controlling, by the new device, the network based on the received network state information.

17. (Previously Presented) The method according to claim 15, further comprising:

transmitting, by the new device, an address of the new device to the managing device.